## COMBINED DECLARATION AND POWER OF ATTORNEY FOR ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION OR CONTINUATION-IN-PART APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

PROCESS AN	D APPA	RATUS FOR CONVERT	TNG OIL SHALE OR TAR SANDS TO	<u>OIL</u>
the specification	n of whic	ch		
a.	[X]	is attached hereto		
b.	[]	was filed on	as application Serial No (if applicable).	and was amended on
		PCT FILED APPLICA	TION ENTERING NATIONAL STAGE	
c.	[]		med in International Application No nended on (if any).	filed on
		e reviewed and understand ny amendment referred to	d the contents of the above-identified spector above.	cification, including the
	•	to disclose information wi 7, Code of Federal Regula	hich is material to the examination of this tions, § 1.56(a).	application in
I hereby specify to be directed:	the follo	owing as the corresponder	nce address to which all communications	about this application are
SEND	CORRE	SPONDENCE TO:	MORGAN & FINNEGAN, L.L.P. 345 Park Avenue New York, N.Y. 10154	
	CT TELE 857-7887	EPHONE CALLS TO: <u>M</u>	ichael S. Marcus, Esq.	
§ 365(b) of any application(s) of foreign applicar same subject m is claimed:	foreign lesignatir tion(s) fo atter hav	application(s) for patent on a at least one country other or patent or inventor's cert ing a filing date within tw	fits under Title 35, United States Code § 1 or inventor's certificate or under § 365(a) of the than the U.S. listed below and also have ifficate or such PCT international applicativelye (12) months before that of the application of the appli	of any PCT international we identified below such ion(s) filed by me on the cation on which priority

Country/PCT	Application <a href="Number">Number</a>	Date of filing (day, month, yr.)	Date of (day, month, yr.)	issue Claimed		Prior	ity
<u>Country 1 O 1</u>			(, ,, , , , , , , , , , , , , ,	<u> </u>	ſ 3 <b>3</b> /	EC	r 100
					[ ] Y	ES	[ ]NO
					[ ] Y	ES	[ ]NO
					[ ] Y	ES	[ ]NO
[ ] I hereby cl	aim the benefit u	nder 35 U.S.C. § 119	(e) of any U.S. provis	sional applicatio	n(s) listed l	elow	7.
P	rovisional Applic	cation No.	<u>D</u> i	ate of filing (day	<u>z, month, yr</u>	:.)	

#### ADDITIONAL STATEMENTS FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN-PART OR PCT INTERNATIONAL APPLICATION(S DESIGNATING THE U.S.)

I hereby claim the benefit under Title 35, United States Code § 120 of any United States application(s) or under § 365(c) of any PCT international application(s) designating the U.S. listed below.

09/457,729	December 10, 1999	Pending	
US/PCT Application Serial No.	Filing Date,	Status (patented, pending, abandoned)/ U.S. application no. assigned (For PCT)	
08/058,184	April 10, 1998	Pending	
US/PCT Application Serial No.	Filing Date,	Status (patented, pending, abandoned)/ U.S. application no. assigned (For PCT)	
08/843,178	April 14, 1997	Patented	
US/PCT Application Serial No.	Filing Date,	Status (patented, pending, abandoned)/ U.S. application no. assigned (For PCT)	

08/551,019	October 31, 1995	Patented
US/PCT Application Serial No.	Filing Date,	Status (patented, pending, abandoned)/ U.S. application no. assigned (For PCT)

[X] In this continuation-in-part application, insofar as the subject matter of any of the claims of this application is not disclosed in the above listed prior United States or PCT international application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or Imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorneys and/or agents with full power of substitution and revocation, to prosecute this application, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith: John A. Diaz (Reg. No. 19,550), John C. Vassil (Reg. No. 19,098), Alfred P. Ewert (Reg. No. 19,887), David H. Pfeffer, P.C. (Reg. No. 19,825), Harry C. Marcus (Reg. No. 22,390), Robert E. Paulson (Reg. No. 21,046), Stephen R. Smith (Reg. No. 22,615), Kurt E. Richter (Reg. No. 24,052), J. Robert Dailey (Reg. No. 27,434), Eugene Moroz (Reg. No. 25,237), John F. Sweeney (Reg. No. 27,471), Arnold I. Rady (Reg. No. 26,601), Christopher A. Hughes (Reg. No. 26,914), William S. Feiler (Reg. No. 26,728), Joseph A. Calvaruso (Reg. No. 28,287), James W. Gould (Reg. No. 28,859), Richard C. Komson (Reg. No. 27,913), Israel Blum (Reg. No. 26,710), Bartholomew Verdirame (Reg. No. 28,483), Maria C. H. Lin (Reg. No. 29,323), Joseph A. DeGirolamo (Reg. No. 28,595), Michael A. Nicodema (Reg. No. 33,199), Michael P. Dougherty (Reg. No. 32,730), Seth J. Atlas (Reg. No. 32,454), Andrew M. Riddles (Reg. No. 31,657), Bruce D. DeRenzi (Reg. No. 33,676) and Michael M. Murray (Reg. No. 32,537) of Morgan & Finnegan, L.L.P. whose address is: 345 Park Avenue, New York, New York 10154; and Michael S. Marcus, Reg. No. 31,727, Joseph C. Redmond, Jr., Reg. No. 18,753; John E. Hoel, Reg. No. 26,279, and Stanley B. Green, Reg. No. 24,351 of Morgan & Finnegan, L.L.P., whose address is: 1775 Eye Street, N.W., Suite 400, Washington, D.C. 20006.

[	]	I hereby authorize the U.S. attorneys and/or agents named hereinabove to accept and follow instru	uctions
		fromas	to any
		action to be taken in the U.S. Patent and Trademark Office regarding this application without dire	ect
		communication between the U.S. attorneys and/or agents and me. In the event of a change in the	person(s)
		from whom instructions may be taken I will so notify the U.S. attorneys and/or agents named her	reinabove.

Full name of sole or fi	rst inventor Chalmer G. KIRKBRIDE
Inventor's signature*	
	date
Residence 7806 4 <sup>th</sup>	Avenue, Bradenton, Florida 34209
Citizenship U.S.A.	
Post Office Address	7806 4th Avenue, Bradenton, Florida 34209
Full name of second jo	oint inventor, if any James A. DOYLE
Inventor's signature*	

			date	
Residence	8842 Eat	onwick Road, Cordobia, Tennessee 38018		
Citizenship	U.S.A.			
Post Office A	Address	8842 Eatonwick Road, Cordobia, Tennessee 38018		

Full name of third joint inventor, if any Fred HILDEBRANDT	
Inventor's signature*	March 1, 2000
M NAMAO	date
Residence Box 31, NAMO, Alberta, TOA 2NO, CANADA	
Citizenship CANADA A	
Post Office Address Box 31, NAMO, Alberta, TOA 2NO, CANADA	
m"	

- \* Before signing this declaration, each person signing must:
  - 1. Review the declaration and verify the correctness of all information therein; and
  - 2. Review the specification and the claims, including any amendments made to the claims.

After the declaration is signed, the specification and claims are not to be altered.

[ ] ATTACHED IS ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY THIRD AND SUBSEQUENT INVENTORS FORM.

To the inventor(s):

The following are cited in or pertinent to the declaration attached to the accompanying application:

#### Title 37, Code of Federal Regulation, §1.56

Duty to disclose information material to patentability

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with

which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

#### Title 35, U.S. Code § 101

Inventions patentable

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

#### Title 35 U.S. Code § 102

Conditions for patentability; novelty and loss of right to patent

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for patent,
- (b) the invention was patented or described in a printed publication in this or foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States, or
  - (c) he has abandoned the invention, or
- (d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months before the filing of the application in the United States, or
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent, or
  - (f) he did not himself invent the subject matter sought to be patented, or
- (g) before the applicant's invention thereof the invention was made in this country by another who had not abandoned, suppressed, or concealed it. In determining priority of invention there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other ...

#### Title 35, U.S. Code § 103

Conditions for patentability; non-obvious subject matter

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

#### Title 35, U.S. Code § 112 (in part)

Specification

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

#### Title 35, U.S. Code, § 119

Benefit of earlier filing date in foreign country; right of priority

An application for patent for an invention filed in this country by any person who has, or whose legal representatives or assigns have, previously regularly filed an application for a patent for the same invention in a foreign country which affords similar privileges in the case of applications filed in the United States or to citizens of the United States, shall have the same effect as the same application would have if filed in this country on the date on which the application for patent for the same invention was first filed in such foreign country, if the application in this country is filed within twelve months from the earliest date on which such foreign application was filed; but no patent shall be granted on any application for patent for an invention which had been patented or described in a printed publication in any country more than one year before the date of the actual filing of the application in this country, or which had been in public use or on sale in this country more than one year prior to such filing.

#### Title 35, U.S. Code, § 120

Benefit or earlier filing date in the United States

An application for patent for an invention disclosed in the manner provided by the first paragraph of section 112 of this title in an application previously filed in the United States, or as provided by section 363 of this title, which is filed by an inventor or inventors named in the previously filed application shall have the same effect, as to such invention, as though filed on the date of the prior application, if filed before the patenting or abandonment of or termination of proceedings on the first application or an application similarly entitled to the benefit of the filing date of the first application and if it contains or is amended to contain a specific reference to the earlier filed application.

Please read carefully before signing the Declaration attached to the accompanying Application.

If you have any questions, please contact Morgan & Finnegan, L.L.P.

FORM: COMB-DEC.NY

Rev. 4/2/98

# COMBINED DECLARATION AND POWER OF ATTORNEY FOR ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION OR CONTINUATION-IN-PART APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

#### PROCESS AND APPARATUS FOR CONVERTING OIL SHALE OR TAR SANDS TO OIL

	PROCESS AL	ND AFFA	KATOS FOR CONVER	TING OIL SHALE OR TAK BANDS TO	OIL
	the specificati				
	a.	[X]	is attached hereto		
Time Times hard their hard how being hear	b.	[]	was filed on	as application Serial No (if applicable).	and was amended on
the state Sa			PCT FILED APPLIC	ATION ENTERING NATIONAL STAGE	;
Time Talk	c.	[]		aimed in International Application No (if any).	filed on
- Stuster	•		reviewed and understa ny amendment referred	and the contents of the above-identified spel to above.	cification, including the
	•	-	to disclose information , Code of Federal Regu	which is material to the examination of this lations, § 1.56(a).	s application in
Staff and	I hereby speci to be directed:	-	owing as the correspond	dence address to which all communications	about this application are
Žs	SENI	D CORRE	SPONDENCE TO:	MORGAN & FINNEGAN, L.L.P.	
				345 Park Avenue	
				New York, N.Y. 10154	
		ECT TELE ) 857-7887		Michael S. Marcus, Esq.	
	§ 365(b) of an application(s) foreign applic	ny foreign a designatin ation(s) fo	application(s) for patent ag at least one country or r patent or inventor's ce	t or inventor's certificate or under § 365(a) other than the U.S. listed below and also havertificate or such PCT international applicate twelve (12) months before that of the applications of the applications of the such PCT international applications.	of any PCT international ve identified below such ion(s) filed by me on the
	[ ] 7 declaration.	Γhe attache	ed 35 U.S.C. § 119 clair	m for priority for the application(s) listed be	elow forms a part of this

Country/PCT	Application <a href="Number">Number</a>	Date of filing (day, month, yr.)	Date of (day, month, yr.)	issue <u>Claimed</u>	Priority
					[ ] YES [ ]NO
					[ ] YES [ ]NO
					[ ] YES [ ] NO
[ ] I hereby cla	aim the benefit u	nder 35 U.S.C. § 119	(e) of any U.S. provi	sional application	on(s) listed below.
<u>P</u> 1	rovisional Applic	cation No.	<u>D</u>	ate of filing (da	y, month, yr.)

#### ADDITIONAL STATEMENTS FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN-PART OR PCT INTERNATIONAL APPLICATION(S DESIGNATING THE U.S.)

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09/457,729	December 10, 1999	Pending
US/PCT Application Serial No.	Filing Date,	Status (patented, pending, abandoned)/ U.S. application no. assigned (For PCT)
08/058,184	April 10, 1998	Pending
US/PCT Application Serial No.	Filing Date,	Status (patented, pending, abandoned)/ U.S. application no. assigned (For PCT)
08/843,178	April 14, 1997	Patented
US/PCT Application Serial No.	Filing Date,	Status (patented, pending, abandoned)/ U.S. application no. assigned (For PCT)

[ ]

08/551,019	October 31, 1995	Patented
US/PCT Application Serial No.	Filing Date,	Status (patented, pending, abandoned)/ U.S. application no. assigned (For PCT)

[X] In this continuation-in-part application, insofar as the subject matter of any of the claims of this application is not disclosed in the above listed prior United States or PCT international application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or Imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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fror	n whom i	nstructions may be taken I will so notify the U.S. attorneys and/or agents named hereinabove.
Full name of Inventor's sign		Chalmer G. Kinkbride Je. of Chalmer G. Kinkbridg - deceased
Residence	7806 4 <sup>th</sup>	Avenue, Bradenton, Florida 34209
Citizenship	U.S.A.	
Post Office A	Address	7806 4th Avenue, Bradenton, Florida 34209
		oint inventor, if any James A. DOYLE
Inventor's sign	gnature	

I hereby authorize the U.S. attorneys and/or agents named hereinabove to accept and follow instructions

action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and/or agents and me. In the event of a change in the person(s)

,	date
Residence 8842 Eatonwick Road, Cordobia, Tennessee 386	018
Citizenship U.S.A.	
Post Office Address 8842 Eatonwick Road, Cordobia, Tenr	nessee 38018
Full name of third joint inventor, if any  Fred HILDEBR.	ANDT
Inventor's signature*	
Inventor's signature	date
Residence Box 31, NAMO, Alberta, TOA 2NO, CANADA	
Citizenship CANADA	
Post Office Address Box 31, NAMO, Alberta, TOA 2NO, O	CANADA

- \* Before signing this declaration, each person signing must:
  - 1. Review the declaration and verify the correctness of all information therein; and
  - 2. Review the specification and the claims, including any amendments made to the claims.

After the declaration is signed, the specification and claims are not to be altered.

[ ] ATTACHED IS ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY THIRD AND SUBSEQUENT INVENTORS FORM.

To the inventor(s):

The following are cited in or pertinent to the declaration attached to the accompanying application:

Title 37, Code of Federal Regulation, §1.56

Duty to disclose information material to patentability

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with

which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

#### Title 35, U.S. Code § 101

Inventions patentable

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

#### Title 35 U.S. Code § 102

Conditions for patentability; novelty and loss of right to patent

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for patent,
- (b) the invention was patented or described in a printed publication in this or foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States, or
  - (c) he has abandoned the invention, or
- (d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months before the filing of the application in the United States, or
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent, or
  - (f) he did not himself invent the subject matter sought to be patented, or
- (g) before the applicant's invention thereof the invention was made in this country by another who had not abandoned, suppressed, or concealed it. In determining priority of invention there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other ...

#### Title 35, U.S. Code § 103

Conditions for patentability; non-obvious subject matter

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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#### Title 35, U.S. Code § 112 (in part)

Specification

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

#### Title 35, U.S. Code, § 119

Benefit of earlier filing date in foreign country; right of priority

An application for patent for an invention filed in this country by any person who has, or whose legal representatives or assigns have, previously regularly filed an application for a patent for the same invention in a foreign country which affords similar privileges in the case of applications filed in the United States or to citizens of the United States, shall have the same effect as the same application would have if filed in this country on the date on which the application for patent for the same invention was first filed in such foreign country, if the application in this country is filed within twelve months from the earliest date on which such foreign application was filed; but no patent shall be granted on any application for patent for an invention which had been patented or described in a printed publication in any country more than one year before the date of the actual filing of the application in this country, or which had been in public use or on sale in this country more than one year prior to such filing.

#### Title 35, U.S. Code, § 120

Benefit or earlier filing date in the United States

An application for patent for an invention disclosed in the manner provided by the first paragraph of section 112 of this title in an application previously filed in the United States, or as provided by section 363 of this title, which is filed by an inventor or inventors named in the previously filed application shall have the same effect, as to such invention, as though filed on the date of the prior application, if filed before the patenting or abandonment of or termination of proceedings on the first application or an application similarly entitled to the benefit of the filing date of the first application and if it contains or is amended to contain a specific reference to the earlier filed application.

Please read carefully before signing the Declaration attached to the accompanying Application.

If you have any questions, please contact Morgan & Finnegan, L.L.P.

FORM: COMB-DEC.NY

Rev. 4/2/98

## COMBINED DECLARATION AND POWER OF ATTORNEY FOR ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION OR CONTINUATION-IN-PART APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

#### PROCESS AND APPARATUS FOR CONVERTING OIL SHALE OR TAR SANDS TO OIL

the specifica	ntion of which [ X ]	is attached hereto					
b.	[]	was filed on	as application Serial No (if applicable).	and was amended on			
		PCT FILED APPLICATIO	N ENTERING NATIONAL STAGE				
c.	[]		l in International Application Noled on (if any).	filed on			
		reviewed and understand the y amendment referred to ab	e contents of the above-identified speciove.	fication, including the			
		disclose information which Code of Federal Regulation	is material to the examination of this as, § 1.56(a).	application in			
I hereby spe to be directe	•	wing as the correspondence	address to which all communications a	bout this application are			
SE	ND CORRES.	PONDENCE TO:	MORGAN & FINNEGAN, L.L.P. 345 Park Avenue New York, N.Y. 10154				
	DIRECT TELEPHONE CALLS TO: Michael S. Marcus, Esq. (202) 857-7887						
[ ] I hereby claim foreign priority benefits under Title 35, United States Code § 119 (a)-(d) or under § 365(b) of any foreign application(s) for patent or inventor's certificate or under § 365(a) of any PCT international application(s) designating at least one country other than the U.S. listed below and also have identified below such foreign application(s) for patent or inventor's certificate or such PCT international application(s) filed by me on the same subject matter having a filing date within twelve (12) months before that of the application on which priority is claimed:  [ ] The attached 35 U.S.C. § 119 claim for priority for the application(s) listed below forms a part of this declaration.							

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#### ADDITIONAL STATEMENTS FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN-PART OR PCT INTERNATIONAL APPLICATION(S DESIGNATING THE U.S.)

I hereby claim the benefit under Title 35, United States Code § 120 of any United States application(s) or under § 365(c) of any PCT international application(s) designating the U.S. listed below.

09/457,729	December 10, 1999	Pending
US/PCT Application Serial No.	Filing Date,	Status (patented, pending, abandoned)/ U.S. application no. assigned (For PCT)
08/058,184	April 10, 1998	Pending
US/PCT Application Serial No.	Filing Date,	Status (patented, pending, abandoned)/ U.S. application no. assigned (For PCT)
08/843,178	April 14, 1997	Patented
US/PCT Application Serial No.	Filing Date,	Status (patented, pending, abandoned)/ U.S. application no. assigned (For PCT)

08/551,019	October 31, 1995	Patented
US/PCT Application Serial No.	Filing Date,	Status (patented, pending, abandoned)/ U.S. application no. assigned (For PCT)

[X] In this continuation-in-part application, insofar as the subject matter of any of the claims of this application is not disclosed in the above listed prior United States or PCT international application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or Imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorneys and/or agents with full power of substitution and revocation, to prosecute this application, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith: John A. Diaz (Reg. No. 19,550), John C. Vassil (Reg. No. 19,098), Alfred P. Ewert (Reg. No. 19,887), David H. Pfeffer, P.C. (Reg. No. 19,825), Harry C. Marcus (Reg. No. 22,390), Robert E. Paulson (Reg. No. 21,046), Stephen R. Smith (Reg. No. 22,615), Kurt E. Richter (Reg. No. 24,052), J. Robert Dailey (Reg. No. 27,434), Eugene Moroz (Reg. No. 25,237), John F. Sweeney (Reg. No. 27,471), Arnold I. Rady (Reg. No. 26,601), Christopher A. Hughes (Reg. No. 26,914), William S. Feiler (Reg. No. 26,728), Joseph A. Calvaruso (Reg. No. 28,287), James W. Gould (Reg. No. 28,859), Richard C. Komson (Reg. No. 27,913), Israel Blum (Reg. No. 26,710), Bartholomew Verdirame (Reg. No. 28,483), Maria C. H. Lin (Reg. No. 29,323), Joseph A. DeGirolamo (Reg. No. 28,595), Michael A. Nicodema (Reg. No. 33,199), Michael P. Dougherty (Reg. No. 32,730), Seth J. Atlas (Reg. No. 32,454), Andrew M. Riddles (Reg. No. 31,657), Bruce D. DeRenzi (Reg. No. 33,676) and Michael M. Murray (Reg. No. 32,537) of Morgan & Finnegan, L.L.P. whose address is: 345 Park Avenue, New York, New York 10154; and Michael S. Marcus, Reg. No. 31,727, Joseph C. Redmond, Jr., Reg. No. 18,753; John E. Hoel, Reg. No. 26,279, and Stanley B. Green, Reg. No. 24,351 of Morgan & Finnegan, L.L.P., whose address is: 1775 Eye Street, N.W., Suite 400, Washington, D.C. 20006.

I hereby authorize the U.S. attorneys and/or agents named hereinabove to accept and follow instructions

con	nmunicatio	ken in the U.S. Patent and Trademark Office regarding this application without direct on between the U.S. attorneys and/or agents and me. In the event of a change in the person(s) astructions may be taken I will so notify the U.S. attorneys and/or agents named hereinabove.
Full name of	f sole or fu	rst inventor Chalmer G. KIRKBRIDE
Inventor's si	gnature*	
		date
Residence	7806 4 <sup>th</sup>	Avenue, Bradenton, Florida 34209
Citizenship	U.S.A.	
Post Office	Address	7806 4th Avenue, Bradenton, Florida 34209
Full name of Inventor's s	_	oint inventor, if any James A. DOYLE

- 3 -

		Frb 29 8	2000	
		ordova v	date	
Residence '	8842 Eat	onwick Road, Cordo Ma, Tennessee 38018		
Citizenship	U.S.A.			
Post Office	Address	8842 Eatonwick Road, Cordobia, Tennessee 38018		
Full name of	•	t inventor, if any Fred HILDEBRANDT		· · · · · · · · · · · · · · · · · · ·
			date	· · · · · ·
Residence	Box 31, 1	NAMO, Alberta, TOA 2NO, CANADA		
Citizenship	CANAI	OA .		
Post Office A	Address	Box 31, NAMO, Alberta, TOA 2NO, CANADA		

- \* Before signing this declaration, each person signing must:
  - 1. Review the declaration and verify the correctness of all information therein; and
  - 2. Review the specification and the claims, including any amendments made to the claims.

After the declaration is signed, the specification and claims are not to be altered.

[ ] ATTACHED IS ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY THIRD AND SUBSEQUENT INVENTORS FORM.

To the inventor(s):

The following are cited in or pertinent to the declaration attached to the accompanying application:

Title 37, Code of Federal Regulation, §1.56

Duty to disclose information material to patentability

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with

which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

#### Title 35, U.S. Code § 101

Inventions patentable

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

#### Title 35 U.S. Code § 102

Conditions for patentability; novelty and loss of right to patent

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for patent,
- (b) the invention was patented or described in a printed publication in this or foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States, or
  - (c) he has abandoned the invention, or
- (d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months before the filing of the application in the United States, or
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent, or
  - (f) he did not himself invent the subject matter sought to be patented, or
- (g) before the applicant's invention thereof the invention was made in this country by another who had not abandoned, suppressed, or concealed it. In determining priority of invention there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other ...

#### Title 35, U.S. Code § 103

Conditions for patentability; non-obvious subject matter

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

#### Title 35, U.S. Code § 112 (in part)

Specification

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

#### Title 35, U.S. Code, § 119

Benefit of earlier filing date in foreign country; right of priority

An application for patent for an invention filed in this country by any person who has, or whose legal representatives or assigns have, previously regularly filed an application for a patent for the same invention in a foreign country which affords similar privileges in the case of applications filed in the United States or to citizens of the United States, shall have the same effect as the same application would have if filed in this country on the date on which the application for patent for the same invention was first filed in such foreign country, if the application in this country is filed within twelve months from the earliest date on which such foreign application was filed; but no patent shall be granted on any application for patent for an invention which had been patented or described in a printed publication in any country more than one year before the date of the actual filing of the application in this country, or which had been in public use or on sale in this country more than one year prior to such filing.

#### Title 35, U.S. Code, § 120

Benefit or earlier filing date in the United States

An application for patent for an invention disclosed in the manner provided by the first paragraph of section 112 of this title in an application previously filed in the United States, or as provided by section 363 of this title, which is filed by an inventor or inventors named in the previously filed application shall have the same effect, as to such invention, as though filed on the date of the prior application, if filed before the patenting or abandonment of or termination of proceedings on the first application or an application similarly entitled to the benefit of the filing date of the first application and if it contains or is amended to contain a specific reference to the earlier filed application.

Please read carefully before signing the Declaration attached to the accompanying Application.

If you have any questions, please contact Morgan & Finnegan, L.L.P.

FORM: COMB-DEC.NY Rev. 4/2/98

Applicant(s)

Serial No.

: KIRKBRIDE, et al.

: 09/058,184

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit: 1764

Filed	: April 10, 1998 Examiner: Not yet assigned					
For	: PROCESS AND APPARATUS FOR CONVERTING OIL SHALE OR TAR SANDS TO OIL					
	RECORDATION FORM COVER SHEET PURSUANT TO 37 C.F.R. § 3.31					
BOX .	Commissioner Of Patents and Trademarks ASSIGNMENTS ngton, D.C. 20231					
Sir:						
	Please record the attached original documents or copy thereof.					
1.	Name of conveying party/parties:  Chalmer G. KIRKBRIDE, Jr., James A. DOYLE, Fred HILDEBRANDT					
2.	Name and address of receiving party/parties:					
	Name: CHATTANOOGA CORPORATION.					
	Internal Address:					
	Street Address: 7808 4th Avenue West					
	City Bradenton State Florida ZIP 34209					
	[ ] Additional names and addresses attached.					
3.	Nature of Conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [X] Other: Order of Summary Administration of the Estate of Chalmer G. Kirkbride Sr., deceased					
	Execution Date: March 31, 1999, November 6, 1998, November 12, 1998					
4.	Application Number(s) or Patent Number(s):					
	[ ] This document is being filed together with a new application which was executed on					
	[ X] Patent Application No.(s) <u>09/058,184</u>					
	[ ] Patent No.(s)					

5. Address all future communications to:

#### MICHAEL S. MARCUS MORGAN & FINNEGAN, L.L.P. 345 Park Avenue New York, New York 10154

6.	Total n	number of applications and patents involved:				
7.	Total fee (37 CFR § 3.41): \$40.00 per property x $\underline{1}$ property(ies) = \$ $\underline{40.00}$					
	[ ]	A check in the amount of \$ to cover the recordation fee is enclosed.				
	[ X ]	Charge fee to Deposit Account No. 13-4500. Order No. 3495-7000.				
[X] The Commissioner is hereby authorized to charged any additional fees which may be for this recordation, or credit any overpayment to Deposit Account No. 13-4500. Orc 3495-7000.						
8.	To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.					
		Respectfully submitted,				
		MORGAN & FINNEGAN, L.L.P.				
D . 1	4 .41.10	Mulas & Marca				
Dated:	April 12	Michael S. Marcus				
		Registration No. 31,727				
		(202) 857-7887 Telephone (202) 857-7929 Facsimile				
		Total number of pages comprising this cover sheet $2$				

CORRESPONDENCE ADDRESS:

MORGAN & FINNEGAN, L.L.P. 345 Park Avenue New York, New York 10154 (212) 758-4800 Telephone (212) 751-6849 Facsimile

Rev. 10/04/94

Assignor's name:Assignor's signature:
Citizenship: United States of America
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this day of, 19
STATE OF )
county of )
On this day of, 19, before me, the undersigned authority, personally appeared
to me known and known to me to be the individual who is described in and who executed the foregoing Assignment and who duly acknowledged to me that he executed the same as his own voluntary act and deed for the uses and purposed therein specified.
Notary Public
Assignor's name: Fred HILDEBRANDT
Assignor's signature:
Citizenship: Canada
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this day of, 19
STATE OF )
county of )
On this day of, 19, before me, the undersigned authority, personally appeared
to me known and known to me to be the individual who is described in and who executed the foregoing Assignment and who duly acknowledged to me that he executed the same as his own voluntary act and deed for the uses and purposed therein specified.
Notary Public
FORM: ASSIGN PAT

#### ASSIGNMENT OF APPLICATION FOR PATENT

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James A Fred H	er G. KIRKBRIDE, Jr. 1245 Penna Avenue, Apt. 8, Miami Beach, Florida 33139;  A. DOYLE, 8842 Eatonwick Road, Cordobia, Tennessee 38018; and  IILDEBRANDT, Box 31, NAMAO, Alberta, TOA 2NO, CANADA  ) and post office address(s) of inventor(s) (including country))	(full		
(hereinafter referred to as ASSIGNOR(S)), has made a discovery or invention entitled:				
	ESS AND APPARATUS FOR CONVERTING OIL SHALE OR TAR SANDS TO OIL overy or invention)	(title		
[]	for which application for Letters Patent of the United States has been executed on even date herev	vith,		
[X]	for which application for Letters Patent of the United States has been filed on <u>April 10, 1998</u> , ur Serial No. <u>09/058,184</u> , and	nder		
WHER	EAS:			
<u>CHAT</u>	TANOOGA CORPORATION, 7808 4th Avenue West, Bradenton, Florida 34209			

(name and address of assignee)

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

#### NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR(S) for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sells, assigns and transfers to ASSIGNEE, its successors, legal representatives and assigns, the full and exclusive right, title and interest to said discovery or invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

We, SAID ASSIGNORS, hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and any Official of any country or countries foreign to the United States of America whose duty it is to issue Letters Patent on applications as aforesaid, to issue all such Letters Patent for said discovery or invention to the ASSIGNEE, as assignee of the entire right, title and interest in, to and under the same, for the sole use and behalf of the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

We, SAID, ASSIGNORS, hereby covenant that we have full right to convey the entire right, title and interest herein sold, assigned, transferred and set over;

AND We, SAID ASSIGNOR(S) hereby further covenant and agree that the ASSIGNEE, its successors, legal representatives, or assigns, may apply for foreign Letters Patent on said discovery or invention and claim the benefits of the International Convention, and that we will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns, communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any facts known to me respecting said discovery or invention, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to the said discovery or invention, the said applications and the said Letters Patent in the ASSIGNEE, its successors, legal representatives and assigns, and that if reissues of the said Letters Patent or disclaimers relating thereto, or divisions, continuations, or refilings of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEE, its successors, legal representatives, or assigns, I will, at any time, when called upon to do so by the ASSIGNEE its successors, legal representatives, or assigns, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all divisional, continuation and reissue applications so desired, and do all lawful acts requisite for the application for such reissues and the procuring thereof and for the filing of such disclaimers and such applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention or discovery in all countries, all without further compensation but at the expense of the ASSIGNEE, its successors, legal representatives and assigns.

Assignor's name: Chalmer G. KIRKBRIDE, Jr.		
Assignor's signature: Nelmu H. Kin	dide Jr.	
Citizenship: United States of America	//	
FLDL K 621-107-40-019-0	$\nu$	
N WITNESS WHEREOF, I have hereunto set my hand	d and affixed my seal this $3/$ day of	MAR, 1999
F/OKIDA	:	
STATE OF $\overrightarrow{DADE}(\overrightarrow{PA})$	JAT PUD.	•
SS.:	PATSY V. BILLERA	1
COUNTY OF DADE )	MY COMMISSION # cc 791306	•
Dispersion Dispersion	OF FLOW EXPIRES 11/16/2002	
	1 900) 2 NOTABY IN THE	

On this 3/ day of MAR, 1999, before me, the undersigned authority, personally appeared

to me known and known to me to be the individual who is described in and who executed the foregoing Assignment, and who duly acknowledged to me that he executed the same as his own voluntary act and deed for the uses and purposed therein specified.

Vally V. Bell



#### ASSIGNMENT OF APPLICATION FOR PATENT

#### WHEREAS:

Chalmer G. KIRKBRIDE (Deceased), 7806 4th Avenue West, Bradenton, Florida 34209;

James A. DOYLE, 8842 Eatonwick Road, Cordobia, Tennessee 38018; and

Fred HILDEBRANDT, Box 31, NAMAO, Alberta, TOA 2NO, CANADA

(full name(s) and post office address(s) of inventor(s) (including country))

(hereinafter referred to as ASSIGNOR(S)), has made a discovery or invention entitled:

### PROCESS AND APPARATUS FOR CONVERTING OIL SHALE OR TAR SANDS TO OIL

(title of discovery or invention)

- for which application for Letters Patent of the United States has been executed on even date herewith,
- [X] for which application for Letters Patent of the United States has been filed on <u>April 10, 1998</u>, under Serial No.09/058,184, and

#### WHEREAS:

## CHATTANOOGA CORPORATION, 7808 4th Avenue West, Bradenton, Florida 34209 (name and address of assignee)

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

#### NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR(S) for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sells, assigns and transfers to ASSIGNEE, its successors, legal representatives and assigns, the full and exclusive right, title and interest to said discovery or invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

We, SAID ASSIGNORS, hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and any Official of any country or countries foreign to the United States of America whose duty it is to issue Letters Patent on applications as aforesaid, to issue all such Letters Patent for said discovery or invention to the ASSIGNEE, as assignee of the entire right, title and interest in, to and under the same, for the sole use and behoof of the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

We, SAID, ASSIGNORS, hereby covenant that we have full right to convey the entire right, title and interest herein sold, assigned, transferred and set over;

AND We, SAID ASSIGNOR(S) hereby further covenant and agree that the ASSIGNEE, its successors, legal representatives, or assigns, may apply for foreign Letters Patent on said discovery or invention and claim the benefits of the International Convention, and that we will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns, communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any facts known to me respecting said discovery or invention, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to the said discovery or invention, the said applications and the said Letters Patent in the ASSIGNEE, its successors, legal representatives and assigns, and that if reissues of the said Letters Patent or disclaimers relating thereto, or divisions, continuations, or refilings of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEE, its successors, legal representatives, or assigns, I will, at any time, when called upon to do so by the ASSIGNEE its successors, legal representatives, or assigns, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all divisional, continuation and reissue applications so desired, and do all lawful acts requisite for the application for such reissues and the procuring thereof and for the filing of such disclaimers and such applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention or discovery in all countries, all without further compensation but at the expense of the ASSIGNEE, its successors, legal representatives and assigns.

Assignor's name:C	<u>Chalmer G. KIRKBRID</u>	E (Deceased)
Assignor's signature:		
Citizenship: United S	tates of America	
— IN WITNESS WHERE 19	OF, I have hereunto set i	my hand and affixed my seal this day of,
STATE OF	)	
COUNTY OF	ss.: )	
On this day of _	, 19, be	efore me, the undersigned authority, personally appeared
to me known and know Assignment, and who d the uses and purposed t	luly acknowledged to me	dual who is described in and who executed the foregoing that he executed the same as his own voluntary act and deed for
Notary Public		

Assignor's name: James A. DOYLE
Assignor's signature:
Citizenship: United States of America
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this day of, 19
STATE OF Terrosser)
county of Shilby
On this Lt day of Novele, 1995, before me, the undersigned authority, personally appeared
to me known and known to me to be the individual who is described in and who executed the foregoing Assignment, and who duly acknowledged to me that he executed the same as his own voluntary act and deed for the uses and purposed therein specified.
Notary Public Cy 1/17/2001
Assignor's signature:
Citizenship: Canada
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this day of, 19
STATE OF )
county of )
On this day of, 19, before me, the undersigned authority, personally appeared
to me known and known to me to be the individual who is described in and who executed the foregoing Assignment, and who duly acknowledged to me that he executed the same as his own voluntary act and deed for the uses and purposed therein specified.
Notary Public

FORM: ASSIGN.PAT Rev. 10/04/94

#### ASSIGNMENT OF APPLICATION FOR PATENT

W	/τ	1	C	D	C	٨	C	

Chalmer G. KIRKBRIDE (Deceased), 7806 4th Avenue West, Bradenton, Florida 34209;				
James A. DOYLE, 8842 Eatonwick Road, Cordobia, Tennessee 38018; and				
Fred HILDEBRANDT, Box 31, NAMAO, Alberta, TOA 2NO, CANADA				
(full name(s) and post office address(s) of inventor(s) (including country))				

(hereinafter referred to as ASSIGNOR(S)), has made a discovery or invention entitled:

### PROCESS AND APPARATUS FOR CONVERTING OIL SHALE OR TAR SANDS TO OIL (title of discovery or invention)

- [] for which application for Letters Patent of the United States has been executed on even date herewith,
- [X] for which application for Letters Patent of the United States has been filed on <u>April 10, 1998</u>, under Serial No. <u>09/058,184</u>, and

#### WHEREAS:

### CHATTANOOGA CORPORATION, 7808 4th Avenue West, Bradenton, Florida 34209 (name and address of assignee)

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

#### NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR(S) for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sells, assigns and transfers to ASSIGNEE, its successors, legal representatives and assigns, the full and exclusive right, title and interest to said discovery or invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

We, SAID ASSIGNORS, hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and any Official of any country or countries foreign to the United States of America whose duty it is to issue Letters Patent on applications as aforesaid, to issue all such Letters Patent for said discovery or invention to the ASSIGNEE, as assignee of the entire right, title and interest in, to and under the same, for the sole use and behoof of the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

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We, SAID, ASSIGNORS, hereby covenant that we have full right to convey the entire right, title and interest herein sold, assigned, transferred and set over;

AND We, SAID ASSIGNOR(S) hereby further covenant and agree that the ASSIGNEE, its successors, legal representatives, or assigns, may apply for foreign Letters Patent on said discovery or invention and claim the benefits of the International Convention, and that we will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns, communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any facts known to me respecting said discovery or invention, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to the said discovery or invention, the said applications and the said Letters Patent in the ASSIGNEE, its successors, legal representatives and assigns, and that if reissues of the said Letters Patent or disclaimers relating thereto, or divisions, continuations, or refilings of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEE, its successors, legal representatives, or assigns, I will, at any time, when called upon to do so by the ASSIGNEE its successors, legal representatives, or assigns, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all divisional, continuation and reissue applications so desired, and do all lawful acts requisite for the application for such reissues and the procuring thereof and for the filing of such disclaimers and such applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention or discovery in all countries, all without further compensation but at the expense of the ASSIGNEE, its successors, legal representatives and assigns.

Assignor's name: Chaimer G. KIKKBKIDE (Deceased)				
Assignor's signature:				
Citizenship: United States of An	merica			
IN WITNESS WHEREOF, I have 19	hereunto set my hand and affixed my seal this day of,			
STATE OF	)			
COUNTY OF	ss.: )			
On this day of	, 19, before me, the undersigned authority, personally appeared			
to me known and known to me to be the individual who is described in and who executed the foregoing Assignment, and who duly acknowledged to me that he executed the same as his own voluntary act and deed for the uses and purposed therein specified.				
Notary Public				

	Assignor's name: James A. DOYLE
	Assignor's signature:
	Citizenship: United States of America
	IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this day of, 19
	STATE OF )
	county of )
	On this day of, 19, before me, the undersigned authority, personally appeared
The state of the s	to me known and known to me to be the individual who is described in and who executed the foregoing Assignment, and who duly acknowledged to me that he executed the same as his own voluntary act and deed for the uses and purposed therein specified.
	Notary Public
H Kenn	Assignor's name: Fred HILDEBRANDT
add add ad during the street with white with white white white white white white white	Assignor's signature: 7. Kle-Ce-Ce-Ce-Ce-Ce-Ce-Ce-Ce-Ce-Ce-Ce-Ce-Ce
	Citizenship: Canada
<u> </u>	IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this
_	STATE OF Also-1 ) ss.:
7	COUNTY OF ( )
	On this 12 day of North 19'18, before me, the undersigned authority, personally appeared
	to me known and known to me to be the individual who is described in and who executed the foregoing Assignment, and who duly acknowledged to me that he executed the same as his own voluntary act and deed for

Notary Public

KATHY TARRABAIN FORM: ASSIGNATION

the uses and purposed therein specified.

Rev. 10/04/94

### RECORDATION FORM COVER SHEET PATENTS ONLY

To The Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.				
1. Name of conveying party(ies):  Chalmer G. KIRKBRIDE, Jr. for Chalmer G. KIRKBRIDE (deceased) James A. DOYLE Fred HILDEBRANDT  Additional name(s) of conveying party(ies) attached?  Yes  No	2. Name and address of receiving party(ies):  Name: CHATTANOOGA CORPORATION 7808 4 <sup>th</sup> Avenue West Bradenton, Florida 34209  Additional name(s) & addresses attached? ☐ Yes ☐ No			
3. Nature of conveyance:  Assignment  Other  Execution Date(s): June 29, 2001	4. Patent Application number(s)  09/522,475 filed March 9, 2000  Execution Date(s):			
Name and address of party to whom correspondence concerning document should be mailed:  Name: Michael S. Marcus  Address: MORGAN & FINNEGAN, LLP  345 Park Avenue New York, NY 10154-0053	6. Total number of applications involved: 1  7. Total fee (37 CFR 3.41): \$40.00  ☑ Charge to Deposit Account No.: 13-4500, Order No. 3495-7000US1.  ☑ Charge any deficiencies to Deposit Account 13-4500, Order No. 3495-7000US1. (A duplicate copy of this sheet is enclosed)			
DO NOT USE THIS SPACE  Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of original document.				
Name of Person Signing  Signature  Date: 7 29,2001  William E. Sekyi, Reg. No. 45,831  Total no. of pages including cover sheet, attachments and document: 7				

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Mail documents to be recorded with required cover sheet information to:

Director of Patents Box Assignments Washington, DC 20231

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, DC 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), Washington, DC 20503.

#### ASSIGNMENT OF APPLICATION FOR PATENT

#### WHEREAS:

Chalmer G. KIRKBRIDE, Jr. 1245 Penna Ave, Apt. 8, Miami Beach, Florida 33139, U.S.A. beneficiary of the estate of Chalmer G. KIRKBRIDE (deceased)

James A. DOYLE, 8842 Eatonwick Road, Cordova, Tennessee 38018, U.S.A.; and

Fred HILDEBRANDT, Box 31, NAMAO, Alberta, TOA 2NO, CANADA (full name(s) and post office address(s) of inventor(s) (including country))

(hereinafter referred to as ASSIGNOR(S)), has made a discovery or invention entitled:

PROCESS AND APPARATUS FOR CONVERTING OIL SHALE OR TAR SANDS TO OIL (title of discovery or invention)

- for which application for Letters Patent of the United States has been executed on even date herewith.
- [X] for which application for Letters Patent of the United States has been filed on March 9, 2000 under Serial No. 09/522,475, which is a continuation of Serial No. 09/058,184, filed on April 10, 1998.

#### WHEREAS:

CHATTANOOGA CORPORATION, 7808 4th Avenue West, Bradenton, Florida 34209 (name and address of assignee)

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

#### NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR(S) for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sells, assigns and transfers to ASSIGNEE, its successors, legal representatives and assigns, the full and exclusive right, title and interest to said discovery or invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

We, SAID ASSIGNORS, hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and any Official of any country or countries foreign to the United States of America whose duty it is to issue Letters Patent on applications as aforesaid, to issue all such Letters Patent for said discovery or invention to the ASSIGNEE, as assignee of the entire right, title and interest in, to and under the same, for the sole use and behalf of the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

We, SAID, ASSIGNORS, hereby covenant that we have full right to convey the entire right, title and interest herein sold, assigned, transferred and set over,

AND We, SAID ASSIGNOR(S) hereby further covenant and agree that he ASSIGNEE, its successors, legal representatives, or assigns, may apply for foreign Letters Patent on said ( iscovery or invention and claim the benefits of the International Convention, and that we will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns, communica e to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any facts known to me te pecting said discovery or invention, and execute and deliver any and all lawful papers that may be necessary or di strable to perfect the title to the said discovery or invention, the said applications and the said Letters Patent us the ASSIGNEE, its successors, legal representatives and assigns, and that if reissues of the said Letters Patent or disclaimers relating thereto, or divisions. continuations, or refilmes of the said applications, or any thereof, shall he reafter be desired by the ASSIGNEE, us successors, legal representatives, or assigns, I will, at any time, when called upon to do so by the ASSIGNEE its successors, legal representanves, or assigns, sign all lawful papers, make all rightful ouths, execute and deliver all such disclaimers and all divisional, confinuation and reissuc applications to destred, and to all lawful acts requisite for the application for such reassues and the procuring thereof and for the filing of such disclaimers and such applications, and generally do everything possible to aid the ASSIGNEE 113 successors, legal representatives and assigns, to obtain and enfarce proper patent protection for said invention in discovery in all countries, all without further compensation but at the expense of the ASSIGNEE, its successor, legal representatives and assigns.

Signe	Chalmer G. KIRKBRIDE (deceased)	Date:	June 29	2001
(2)	James A. DOYLE	Date		
(3)	Kred RIL DERRANIT	Date:		

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#### ASSIGNMENT OF APPLICATION FOR PATENT

#### WHEREAS:

Chalmer G. KIRKBRIDE, Jr. 1245 Penna Ave, Apt. 8, Miami Beach, Florida 33139, U.S.A. bene	ficiary of
the estate of Chalmer G. KIRKBRIDE (deceased)	110101 7 01
James A. DOYLE, 8842 Eatonwick Road, Cordova, Tennessee 38018, U.S.A.; and	
Fred HILDEBRANDT, Box 31, NAMAO, Alberta, TOA 2NO, CANADA	(full
name(s) and post office address(s) of inventor(s) (including country))	
(hereinafter referred to as ASSIGNOR(S)), has made a discovery or invention entitled:	
PROCESS AND APPARATUS FOR CONVERTING OIL SHALE OR TAR SANDS TO OIL	(title
of discovery or invention)	

- [] for which application for Letters Patent of the United States has been executed on even date herewith,
- [X] for which application for Letters Patent of the United States has been filed on <u>March 9, 2000</u> under Serial No. <u>09/522,475</u>, which is a continuation of Serial No. <u>09/058,184</u>, filed on <u>April 10, 1998</u>.

#### WHEREAS:

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We, SAID ASSIGNORS, hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and any Official of any country or countries foreign to the United States of America whose duty it is to issue Letters Patent on applications as aforesaid, to issue all such Letters Patent for said discovery or invention to the ASSIGNEE, as assignee of the entire right, title and interest in, to and under the same, for the sole use and behalf of the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

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AND We, SAID ASSIGNOR(S) hereby further covenant and agree that the ASSIGNEE, its succession, legal representatives, or assigns, may apply for foreign Letters Parent on said discovery or invention and claim the benefits of the International Convention, and that we will, at any time, when called upon to do so by the ASSIGNEE, the successors, legal representatives, or essigns, communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any facts known to me respecting said discovery or invention, and execute and deliver any and all lawful papers that may be necessary or desurable to perfect the fille to the said discovery or invention, the said applications and the said Letters Pateur in the ASSIGNEE, its successors, legal representances and assigns, and that if reissues of the said Leners Patent or disclaimers relating thereto, or divisions, continuations, or refilings of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEE, its successors, legal representatives, or assigns, I will, at any time, when called upon to do so by the ASSIGNEE its successors, legal representatives, or assigns, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all dry isional, continuation and reissue applications so desired, and do all lawful acts requirite for the application for such resistues and the procuring thereof and for the filling of such disclaimers and such applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and ussigns, to obtain and enforce proper patent protection for said invention or discovery in all countries, all unthout further compensation but at the expense of the ASSIONEE, its successors, legal representatives and assigns.

Signed	•		
(1)	Chalmer G. KIRKBRIDE, Jr. for Chalmer G. KIRKBRIDE (deceased)	Dule:	
(2)	James A. DOYLE	Date:	
(3)	Fred HILDEBRANDT	Date	June 29, 2001

#### ASSIGNMENT OF APPLICATION FOR PATENT ..

#### WHEREAS:

Chalr	mer G. KIRKBRIDE, Jr. 1245 Penna Ave, Apt. 8, Miami Beach, Florida 33139, U.S.A. benef	iciary of
	state of Chalmer G. KIRKBRIDE (deceased )	
	s A. DOYLE, 8842 Eatonwick Road, Cordova, Tennessee 38018, U.S.A.; and	
<u>Fred</u>	HILDEBRANDT, Box 31, NAMAO, Alberta, TOA 2NO, CANADA	(full
name(	(s) and post office address(s) of inventor(s) (including country))	_(
(herei	nafter referred to as ASSIGNOR(S)), has made a discovery or invention entitled:	
PRO	CESS AND APPARATUS FOR CONVERTING OIL SHALE OR TAR SANDS TO OIL	(title
of disc	covery or invention)	`
[]	for which application for Letters Patent of the United States has been executed on even date here	ewith,
[X]	for which application for Letters Patent of the United States has been filed on March 9, 2000 under Serial No. 09/522,475, which is a continuation of Serial No. 09/058,184, filed on April 10, 1998.	·
WHE	REAS:	

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AND We, SAID ASSIGNOR(S) hereby further covenant and ugree that the ASSIGNER, its successors, legal representances, or assigns, may apply for foreign Letters Patent on said discovery or invention and claim the hanafile of the international Convention, and that we will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representanves, or assigns, communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any facts known to me respecting said discovery or invention, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to the said discovery or invention, the said applications and the said Letters Patent in the ASSIGNEE, its successors, legal representants es and assigns, and that if rensues of the said Letters Parent or disclaimers relating thereto, or divisions, commutations, of refillings of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEF, us successors, legal representatives, or assigns, I will, at any time, when called upon to do so by the ASSIGNEE his successors, legal representatives or assigns, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaumers and all devisional, configuation and reasur applications to desired, and do all lawful acts requisite for the application for such resssues and the procuring thereof and for the filing of such disclaimers and such applications, and generally do everything possible to still the ASSIGNEE, its successions, legal representatives and avergue, to obtain and enforce proper patent protection for said invention or discovery in all countries, all without further compensation but at the expense of the ASSIGNEE, its successors, legal representances and assigns.

Signed:			
1);	Chalmer G. KIRKBRIDE, 1r. for Chalmer G. KIRKBRIDE (decrased)	Date	
(2)	Junes a DOVLE	Date:	Jun 29, 200
(3)	Fred HILDEBRANDT	Date.	

Group Art Unit: 1764

Serial No.: 08/058,184

Examiner: B. Yildirim

Filed: April 10, 1998

For: PROCESS AND APPARATUS FOR CONVERTING OIL SHALE OR TAR SANDS TO

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

OIL

### STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR §1.9(f) AND §1.27(c)) - SMALL BUSINESS CONCERN

I	hereby	state	that	Ī	am.
---	--------	-------	------	---	-----

[ ] the owner of the small business concern identified below:

[X] an official of the small business concern empowered to act on behalf of the concern identified below:

### NAME OF CONCERN\_CHATTANOOGA CORPORATION ADDRESS OF CONCERN\_7808 4th Avenue West\_Bradenton\_Florida\_34210

I hereby state that the above identified small business concern qualifies as a small business concern as defined in 13 CFR §§ 121.3-18, and reproduced in 37 CFR § 1.9(d), for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both. I hereby state that exclusive rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention entitled: PROCESS AND APPARATUS FOR CONVERTING OIL SHALE OR TAR SANDS TO OIL

by inventor(s): Chalmer G. KIRKBRIDE (Deceased); James A. DOYLE: Fred HILDEBRANDT

[ ]	the specification filed	herewith		
[X]	application Serial No.	09/058.184	filed April 10.	1998
ר ז	Patent No.		ismad	

1747\_1

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization leaving rights to the invention is listed below and no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 CPR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CPR 1.9(d), or a nonprofit organization under 37 CPR 1.9(e).

NAME Geval I Smith

ADDRESS 7808 45th Ave West Gash In Fig. 244000

ADDRESS_	7808 4 [] Individu	hth Hve	West 19	ma [	n dori. ] Nonprol	FL.	34200 ization
NAME				<del></del>			
ADDRESS_			usiness Concern				
resulting in los earliest of the	ss of entitlemen	t to small enti maintenance	cation or patent, ity status prior to fee due after the	paying	, or at the	time of p	aying, the
NAME OF PE	rson signi	NG	Gerald J. Smith	<del></del>		<del></del>	
ittle of Pe	rson if oth	er than o	WNER Preside	ent of C	nattanooga	Corpor	ation
address of	PERSON SIC	BNING 7808	4th Avenue, We	et Brac	lenton, Flo	rida 342	210

SIGNATURE Sorald Smith DATE JUNE 11,1999

NOTE: Separate statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR I 27)